

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/552,914
Source: PCT
Date Processed by STIC: 06/06/2006

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/552,914

TIME: 10:22:32

Input Set : A:\14017-009US1.txt

Output Set: N:\CRF4\06062006\J552914.raw

```

4 <110> APPLICANT: Clawson, Gary A.
5     Pan, Wei-Hua
6     Xin, Ping
8 <120> TITLE OF INVENTION: RNA Interference Compositions and
9     Methods
11 <130> FILE REFERENCE: 14017/009US1
13 <140> CURRENT APPLICATION NUMBER: US 10/552,914
14 <141> CURRENT FILING DATE: 2005-10-13
16 <150> PRIOR APPLICATION NUMBER: PCT/US2004/005400
17 <151> PRIOR FILING DATE: 2004-02-23
19 <150> PRIOR APPLICATION NUMBER: 60/449,066
20 <151> PRIOR FILING DATE: 2003-02-21
22 <160> NUMBER OF SEQ ID NOS: 55
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 19
28 <212> TYPE: DNA
29 <213> ORGANISM: Human papillomavirus
31 <400> SEQUENCE: 1
32 ccagaaaguu accacaguu                                     19
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 19
36 <212> TYPE: DNA
37 <213> ORGANISM: Human papillomavirus
39 <400> SEQUENCE: 2
40 ccggaaaguu accacaguu                                     19
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 19
44 <212> TYPE: DNA
45 <213> ORGANISM: Human papillomavirus
47 <400> SEQUENCE: 3
48 aacuguggua acuuucugg                                     19
50 <210> SEQ ID NO: 4
51 <211> LENGTH: 19
52 <212> TYPE: DNA
53 <213> ORGANISM: Human papillomavirus
55 <400> SEQUENCE: 4
56 aacuguggua acuuuccgg                                     19
58 <210> SEQ ID NO: 5
59 <211> LENGTH: 21
60 <212> TYPE: DNA
61 <213> ORGANISM: Human papillomavirus
63 <400> SEQUENCE: 5

```

RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/552,914

TIME: 10:22:32

Input Set : A:\14017-009US1.txt

Output Set: N:\CRF4\06062006\J552914.raw

```

64 guuaccacag uuaugcacag a 21
66 <210> SEQ ID NO: 6
67 <211> LENGTH: 21
68 <212> TYPE: DNA
69 <213> ORGANISM: Human papillomavirus
71 <400> SEQUENCE: 6
72 ucugugcaua acugugguaa c 21
74 <210> SEQ ID NO: 7
75 <211> LENGTH: 11
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Cassette
82 <400> SEQUENCE: 7
83 guucaagacc c 11
85 <210> SEQ ID NO: 8
86 <211> LENGTH: 9
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Cassette
93 <400> SEQUENCE: 8
94 uucaagacc 9
96 <210> SEQ ID NO: 9
97 <211> LENGTH: 19
98 <212> TYPE: DNA
99 <213> ORGANISM: Human papillomavirus
101 <400> SEQUENCE: 9
102 ccggaaagtt accacagtt 19
104 <210> SEQ ID NO: 10
105 <211> LENGTH: 21
106 <212> TYPE: DNA
107 <213> ORGANISM: Human papillomavirus
109 <400> SEQUENCE: 10
110 gttaccacag ttatgcacag a 21
112 <210> SEQ ID NO: 11
113 <211> LENGTH: 19
114 <212> TYPE: DNA
115 <213> ORGANISM: Human papillomavirus
117 <400> SEQUENCE: 11
118 ccagaaagtt accacagtt 19
120 <210> SEQ ID NO: 12
121 <211> LENGTH: 139
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Cassette
128 <400> SEQUENCE: 12
129 ggatccttcc gggctgatga gtccaattgg acgaaacggt actcgagtac cgtccccgga 60

```

RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/552,914

TIME: 10:22:32

Input Set : A:\14017-009US1.txt

Output Set: N:\CRF4\06062006\J552914.raw

```

130 aagttaccac agttgttgac ggagaattct ccgtcctgat gagtccggcc ggacgaaaca      120
131 actgagatct ttttctaga                                          139
133 <210> SEQ ID NO: 13
134 <211> LENGTH: 139
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Cassette
141 <400> SEQUENCE: 13
142 ggatccacag ttgctgatga gtccaattgg acgaaacggt actcgagtac cgtccaactg      60
143 tggtaacttt ccgggttgac ggagaattct ccgtcctgat gagtccggcc ggacgaaacc      120
144 cggaagatct ttttctaga                                          139
146 <210> SEQ ID NO: 14
147 <211> LENGTH: 139
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Cassette
154 <400> SEQUENCE: 14
155 ggatcctggt aacctgatga gtccaattgg acgaaacggt actcgagtac cgtcgttacc      60
156 acagttatgc acagattgac ggagaattct ccgtcctgat gagtccggcc ggacgaaatc      120
157 tgtgagatct ttttctaga                                          139
159 <210> SEQ ID NO: 15
160 <211> LENGTH: 139
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Cassette
167 <400> SEQUENCE: 15
168 ggatccgcac agactgatga gtccaattgg acgaaacggt actcgagtac cgtctctgtg      60
169 cataactgtg gtaacttgac ggagaattct ccgtcctgat gagtccggcc ggacgaaagt      120
170 taccagatct ttttctaga                                          139
172 <210> SEQ ID NO: 16
173 <211> LENGTH: 178
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Cassette
180 <400> SEQUENCE: 16
181 ggatcagctt cgagctctga tgagtccgtg aggacgaaac ggtaccggt accgtcagct      60
182 cgacctcaga tccccagaaa gttaccacag ttgttaattg atccgtcgac ggatgtagat      120
183 ccgtcctgat gagtccgtga ggacgaaacg gatctgcagc ggatgatctt ttttctaga      178
185 <210> SEQ ID NO: 17
186 <211> LENGTH: 178
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Cassette
193 <400> SEQUENCE: 17

```

RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/552,914

TIME: 10:22:32

Input Set : A:\14017-009US1.txt

Output Set: N:\CRF4\06062006\J552914.raw

```

194 ggatcagctt cgagctctga tgagtccgtg aggacgaaac ggtacccggt accgtcagct      60
195 cgacctcaga tccaactgtg gtaactttct gggttaattg atccgtcgac ggatgtagat      120
196 ccgtcctgat gagtccgtga ggacgaaacg gatctgcagc ggatgatctt tttctaga      178
198 <210> SEQ ID NO: 18
199 <211> LENGTH: 21
200 <212> TYPE: DNA
201 <213> ORGANISM: Human papillomavirus
203 <400> SEQUENCE: 18
204 tttggagcta ctgtggagtt a      21
206 <210> SEQ ID NO: 19
207 <211> LENGTH: 139
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Cassette
214 <400> SEQUENCE: 19
215 aagcttctcc aaactgatga gtccaattgg acgaaacggt actcgagtac cgtctttgga      60
216 gctactgtgg agttattgac ggagaattct ccgtcctgat gagtccggcc ggacgaaata      120
217 actcagatct ttttctaga      139
219 <210> SEQ ID NO: 20
220 <211> LENGTH: 139
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Cassette
227 <400> SEQUENCE: 20
228 aagcttggag ttactgatga gtccaattgg acgaaacggt actcgagtac cgtctaactc      60
229 cacagtagct ccaaattgac ggagaattct ccgtcctgat gagtccggcc ggacgaaatt      120
230 tggaagatct ttttctaga      139
232 <210> SEQ ID NO: 21
233 <211> LENGTH: 183
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Cassette
240 <400> SEQUENCE: 21
241 ggatccttct gggctgatga gtccaattgg acgaaacgat gacattctgg tactcgagta      60
242 ccagaatgtc atcgtcccca gaaagttacc acagttggtg agcgcaacga cgcggagaat      120
243 tctccgcgtc gttgcgctcc tgatgagtcc ggccggacga aacaactgag atctttttct      180
244 aga      183
246 <210> SEQ ID NO: 22
247 <211> LENGTH: 183
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: Cassette
254 <400> SEQUENCE: 22
255 ggatccacag ttgctgatga gtccaattgg acgaaacgat gacattctgg tactcgagta      60
256 ccagaatgtc atcgtccaac tgtggtaact ttctggggtg agcgcaacga cgcggagaat      120

```

RAW SEQUENCE LISTING

DATE: 06/06/2006

PATENT APPLICATION: US/10/552,914

TIME: 10:22:32

Input Set : A:\14017-009US1.txt

Output Set: N:\CRF4\06062006\J552914.raw

```

257 tctccgcgctc gttgcgctcc tgatgagtcc ggccggacga aaccagaag atctttttct 180
258 aga 183
260 <210> SEQ ID NO: 23
261 <211> LENGTH: 252
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Cassette
268 <400> SEQUENCE: 23
269 ggatcatcca gctttggaac cctgatgagt ccgtgaggac gaaacgatga cattctgctg 60
270 accagattca cggtcagcag aatgtcatcg tcggttccag gatcccaga aagttaccac 120
271 agttgttaat tccaagggtc tgcgcaacga cgacgatgag gtaccacatc gtcgctgctg 180
272 cgcactgatg aggccgtgag gccgaaaccc ttgacgcggt cctatgcggc cgctctagga 240
273 tctttttcta ga 252
275 <210> SEQ ID NO: 24
276 <211> LENGTH: 252
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Cassette
283 <400> SEQUENCE: 24
284 ggatcatcca gctttggaac cctgatgagt ccgtgaggac gaaacgatga cattctgctg 60
285 accagattca cggtcagcag aatgtcatcg tcggttccag gatccaactg tggtaacttt 120
286 ctgggttaat tccaagggtc tgcgcaacga cgacgatgag gtaccacatc gtcgctgctg 180
287 cgcactgatg aggccgtgag gccgaaaccc ttgacgcggt cctatgcggc cgctctagga 240
288 tctttttcta ga 252
290 <210> SEQ ID NO: 25
291 <211> LENGTH: 263
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Cassette
298 <400> SEQUENCE: 25
299 ggatccttcc gggctgatga gtccaattgg acgaaacggt actcgagtac cgtccccgga 60
300 aagttaccac agttgttgac ggagaattct ccgtcctgat gagtccggcc ggacgaaaca 120
301 actgagatcc acagttgctg atgagtccaa ttggacgaaa cggtagtcga gtaccgtcca 180
302 actgtggtaa ctttccgggt tgacggagaa ttctccgtcc tgatgagtcc ggccggacga 240
303 aaccggaag atctttttct aga 263
305 <210> SEQ ID NO: 26
306 <211> LENGTH: 270
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Cassette
313 <400> SEQUENCE: 26
314 ggatcctggt aacgctgatg agtccaattg gacgaaacgg tactcgagta ccgtccgtta 60
315 ccacagttat gcacagagtt gacggagaat tctccgtcct gatgagtccg gccggacgaa 120
316 atctgtgaga tccgcacaga gctgatgagt ccaattggac gaaacggtac tcgagtaccg 180
317 tcctctgtgc ataactgtgg taacgttgac ggagaattct ccgtcctgat gagtccggcc 240

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/552,914

DATE: 06/06/2006

TIME: 10:22:33

Input Set : A:\14017-009US1.txt

Output Set: N:\CRF4\06062006\J552914.raw